Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims

in the application:

Listing of Claims:

1. (Currently Amended) A wheel supporting rolling bearing unit comprising:

a stationary side raceway ring supported and fixed supported/fixed on a

suspension system in use:

a rotary side raceway ring for supporting and fixing supporting/fixing a

wheel in use:

a plurality of balls provided between a stationary side raceway surface

and a rotary side raceway surface, each of which has a circular-arc sectional

shape, on mutually opposing peripheral surfaces of the stationary side raceway

ring and the rotary side raceway ring; and

a seal ring for sealing only one opening portion out of opening portions on

both end portions of a space in which the balls are provided between the

mutually opposing peripheral surfaces of the stationary side raceway ring and

the rotary side raceway ring;

Page 2 of 9

Serial No. 10/526,548

Amendment Dated: April 18, 2007

Reply to Office Action Mailed: January 18, 2007

Attorney Docket No. 038922.55990US

wherein the other raceway ring, which is positioned inside in a radial

direction, out of the stationary side raceway ring and the rotary side raceway

ring consists of a main shaft member and an inner ring, the main shaft member

has a first inner ring raceway formed directly in a middle portion of an outer

peripheral surface in an axial direction to serve as the stationary side raceway

surface or the rotary side raceway surface and a small-diameter stepped portion

formed on one end portion of the outer peripheral surface in the axial direction. and the inner ring on an outer peripheral surface of which a second inner ring

raceway as the stationary side raceway surface or the rotary side raceway

surface is formed is fitted/fixed onto the small-diameter stepped portion.

the seal ring has two or three seal lips which are formed of elastic material

respectively and a top end edge of each of which slidingly comes into contact with

a counter surface.

wherein an axial load to apply a preload to the balls is set to 1.96 to 4.9

kN,

a rigidity factor is set to 0.09 or more,

a torque required to relatively run the stationary side raceway ring and

the rotary side raceway ring at 200 min-1 based on a friction between the seal lip

and a counter surface is set to 0.03 to 0.2 N·m. and

Page 3 of 9

Serial No. 10/526,548
Amendment Dated: April 18, 2007
Reply to Office Action Mailed: January 18, 2007
Attorney Docket No. 038922.55990US

a torque required to relatively run the stationary side raceway ring and the rotary side raceway ring at 200 min⁻¹ based on a rolling resistance of each ball is set to 0.15 to 0.45 N·m.

(Withdrawn) A wheel supporting rolling bearing unit according to claim
 , wherein the inner ring is pressed by a caulking portion, which is formed by
 elastically deforming one end portion of the main shaft member outward in the
 radial direction, at one end surface.